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9 //@version=5
10
11 indicator("MACD Bands - Multi Timeframe [TradeMaster Lite]", 'MACD Bands - MTF [TradeMaster Lite]', pr
12
13
14 // INPUTS \
15 i_src   = input.source   (close, 'Source'   , inline = 'src')
16 i_tf    = input.timeframe('', 'Timeframe', inline = 'src', tooltip = 'Only timeframes higher than
17 i_maType = input.string  ('EMA', 'MA Type'  , inline = 'ma' , options = ['SMA', 'SMMA', 'EMA', 'DEMA', 'I
18 i_bbMult = input.float   (1 , 'Band mult', inline = 'ma' , minval = 0.1, maxval = 100, step = 0.1)
19 i_fast   = input.int     (12 , ''         , inline = 'len')
20 i_slow   = input.int     (26 , ''         , inline = 'len')
21 i_sign   = input.int     (9 , ''         , inline = 'len')
22
23
24 // OBJECT BLUEPRINT \
25 type Macd
26     float line = na
27     float sign = na
28     float hist = na
29     float top  = na
30     float bot  = na
31
32
33 // FUNCTIONS \
34 get_sec(tf , exp) => request.security('', tf, exp[1], barmerge.gaps_off, barmerge.lookahead_on)
35 dema (src, len) => ema = ta.ema(src, len), 2 * ema - ta.ema(ema, len)
36 tema (src, len) => ema = ta.ema(src, len), ema2 = ta.ema(ema, len), 3 * (ema - ema2) + ta.ema(ema2,
37
38 get_ma(src, len) =>
39     switch i_maType
40         'SMA' => ta.sma (src, len)
41         'SMMA' => ta.rma (src, len)
42         'EMA' => ta.ema (src, len)
43         'DEMA' => dema (src, len)
44         'TEMA' => tema (src, len)
45         'LSMA' => ta.linreg(src, len, 0)
46         'HMA' => ta.hma (src, len)
47         'VWMA' => ta.vwma (src, len)
48         'WMA' => ta.wma (src, len)
49
50 get_macd() =>
51     macd      = get_ma (i_src, i_fast) - get_ma(i_src, i_slow)
52     sign      = get_ma (macd , i_sign)
53

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deviation = ta.stdev(sign , i_sign) * i_bbMult
Macd.new(macd, sign, macd - sign, sign + deviation, sign - deviation)

// CALCULATION \ excluded ltf for now, irrelevant and noisy anyways
var color clrHist = na
var isMtf = not na(i_tf) and timeframe.in_seconds(i_tf) > timeframe.in_seconds()
tf_change = isMtf ? timeframe.change(i_tf) : true
macd      = get_macd()
macd      := isMtf ? get_sec(i_tf, macd) : macd
clrHist   := macd.hist > macd.hist[1] ? #00897b83 : macd.hist < macd.hist[1] ? #ff990080 : clrHist

// PLOTS \
isBull    = macd.line > macd.sign
macdline = plot(tf_change ? macd.line : na, 'macdLine', isBull ? #4caf50 : #ff5252)
plot(tf_change ? macd.sign : na, 'signalLine', #ffeb3b)

plot(macd.hist, 'histogram ', clrHist, style = plot.style_columns)
plot(ta.cross(macd.line, macd.sign) ? macd.line : na, 'cross', isBull ? #00897b : #ff9800, 4, plot.sty

bTop = plot(tf_change ? macd.top : na, 'band top', #2196f31a)
bBot = plot(tf_change ? macd.bot : na, 'band bot', #2196f31a)

// FILLS \
fill(bTop , bBot, #2196f31a , 'Fill band', fillgaps = true)
fill(macdline, bTop, macd.line > macd.top ? #4caf4f7d : na, 'Fill bull', fillgaps = true)
fill(macdline, bBot, macd.line < macd.bot ? #ff525288 : na, 'Fill bear', fillgaps = true)

// a zero line :) \
hline(0, '0 Line', linestyle = hline.style_dotted, color = color.gray, editable = false)
```